



ENTERED

PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,125

DATE: 04/04/2002

TIME: 15:35:51

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088125.raw

4 <110> APPLICANT: Joelle Thonnard
 6 <120> TITLE OF INVENTION: Novel Compounds
 9 <130> FILE REFERENCE: BM45413
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/088,125
 C--> 11 <141> CURRENT FILING DATE: 2002-03-14
 11 <150> PRIOR APPLICATION NUMBER: 99 21692.1
 12 <151> PRIOR FILING DATE: 1999-09-14
 14 <160> NUMBER OF SEQ ID NOS: 10
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 1524
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Moraxella catarrhalis
 23 <400> SEQUENCE: 1
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 25 gcttgtagta gcattccaaa gaaaattgac acatcggcac cgattttggc ggtgcctaata 120
 26 gtgcctatga aggatggcta tcaagtctat gatgctgaca ccatcagtggt ggcgaggca 180
 27 ccaagcgtgg catcactacg ctggcaggaa tttatataca atcctaaact tgcagctttg 240
 28 attgagcttg ctttacaaaa taacaaagac ttgcaatctg cggctcttagc cgtgcaatca 300
 29 gcccggtgctc aatatcaaat taccgaagct ggcagcgtgc cacaagtcgg ctcaaatacc 360
 30 agtgtgacac gccaaagcga taaccgtatc gatgccaatg cttcaacca ttatcatggt 420
 31 gggcttgcca tgagtgggta tgagctggat ttatggggca aagttgccag tcaaaaacag 480
 32 caagcactac atcaatatct ggcaaccaac gccgcaaaag acgccgttca gatttcaatc 540
 33 atctcaagcg tcgccaaggt ttacgttaac ttagctcacg ctttgggtca aaggcagttg 600
 34 gctgagcaga cgctaaaaac ccgtgaacat gcgatgatga ttacccaaaa gcgttttgaa 660
 35 gcgggggattg attctaagtc gccaaagtcta caagcagcaa gttcacttga gtcagcacga 720
 36 ttggcagtat atgcagcaga taccagtatc ttaaaagcca aaaatgcgtt acagctgctg 780
 37 attggtcgctc ctgtaccaaa cgagctacta ccagcgatag atgccagtat gcatatgggt 840
 38 catattacca cacagacatt gtttagtgca ggtttgccca gcgagctttt atattatcgc 900
 39 ccagatatta tgcaggctga gcacgccta aaagcagcag gtgcaaatat caatgtggca 960
 40 cgcgctgctt attttcgctc gattcgctta tcatctaagt tgggatttag tagtaacagt 1020
 41 ttgaataact tatttgaatc aagtgccttg ggctggcttt ttgggcctgc gattagcttg 1080
 42 cctatctttg atgcaggcag tcgccgtgcc aatcatgaga tggcgcaagt tgctcagcag 1140
 43 tcggcatttg tggattatga aaaagctatt caaaatgcct ttaaagaagt gtcggatggt 1200
 44 ttagctgagc gtgcaacttt aggcttgctg cttgatgccc agattcgctt tcaggataat 1260
 45 taccgtcaaa cttatgatat cgcttatgca agatttcgtt ctggattgga taattatctg 1320
 46 acggtactgg acgccgagcg gtctttatct attaatcagc aaaatatact acagcttgaa 1380
 47 cttgccaaagt tagtcagcca aatccagcta taccaagcat tgggcggcgg tgcaagctta 1440
 48 actgctgagc aaatcacaga atttaatcgt cagcgtgaag ccatgcgtcc agccatgctg 1500
 49 atggatgacg aaaaatccca atag 1524
 51 <210> SEQ ID NO: 2
 52 <211> LENGTH: 506
 53 <212> TYPE: PRT

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54 <213> ORGANISM: Moraxella catarrhalis
56 <400> SEQUENCE: 2
57 Met Lys Ile Ser Thr Thr Ala Arg Ile Leu Thr Leu Ser Ala Leu Ala
58 1 5 10 15
59 Ile Gly Met Ala Ala Cys Ser Ser Ile Pro Lys Lys Ile Asp Thr Ser
60 20 25 30
61 Ala Pro Ile Leu Ala Val Pro Asn Val Pro Met Lys Asp Gly Tyr Gln
62 35 40 45
63 Val Tyr Asp Ala Asp Thr Ile Ser Val Ala Gln Ala Pro Ser Val Ala
64 50 55 60
65 Ser Leu Arg Trp Gln Glu Phe Tyr Thr Asn Pro Lys Leu Ala Ala Leu
66 65 70 75 80
67 Ile Glu Leu Ala Leu Gln Asn Asn Lys Asp Leu Gln Ser Ala Val Leu
68 85 90 95
69 Ala Val Gln Ser Ala Arg Ala Gln Tyr Gln Ile Thr Glu Ala Gly Ser
70 100 105 110
71 Val Pro Gln Val Gly Ser Asn Thr Ser Val Thr Arg Gln Ala Asn Asn
72 115 120 125
73 Arg Ile Asp Ala Asn Ala Ser Thr Asn Tyr His Val Gly Leu Ala Met
74 130 135 140
75 Ser Gly Tyr Glu Leu Asp Leu Trp Gly Lys Val Ala Ser Gln Lys Gln
76 145 150 155 160
77 Gln Ala Leu His Gln Tyr Leu Ala Thr Asn Ala Ala Lys Asp Ala Val
78 165 170 175
79 Gln Ile Ser Ile Ile Ser Ser Val Ala Gln Gly Tyr Val Asn Leu Ala
80 180 185 190
81 His Ala Leu Ala Gln Arg Gln Leu Ala Glu Gln Thr Leu Lys Thr Arg
82 195 200 205
83 Glu His Ala Met Met Ile Thr Gln Lys Arg Phe Ala Gly Ile Asp Ser
84 210 215 220
85 Lys Ser Pro Ser Leu Gln Ala Ala Ser Ser Leu Glu Ser Ala Arg Leu
86 225 230 235 240
87 Ala Val Tyr Ala Ala Asp Thr Ser Ile Leu Lys Ala Lys Asn Ala Leu
88 245 250 255
89 Gln Leu Leu Ile Gly Arg Pro Val Pro Asn Glu Leu Leu Pro Ala Ile
90 260 265 270
91 Asp Ala Ser Met His Met Gly His Ile Thr Thr Gln Thr Leu Phe Ser
92 275 280 285
93 Ala Gly Leu Pro Ser Glu Leu Leu Tyr Tyr Arg Pro Asp Ile Met Gln
94 290 295 300
95 Ala Glu His Arg Leu Lys Ala Ala Gly Ala Asn Ile Asn Val Ala Arg
96 305 310 315 320
97 Ala Ala Tyr Phe Pro Ser Ile Arg Leu Ser Ser Asn Val Gly Phe Ser
98 325 330 335
99 Ser Asn Ser Leu Asn Asn Leu Phe Glu Ser Ser Ala Leu Gly Trp Ser
100 340 345 350
101 Phe Gly Pro Ala Ile Ser Leu Pro Ile Phe Asp Ala Gly Ser Arg Arg
102 355 360 365
103 Ala Asn His Glu Met Ala Gln Val Ala Gln Gln Ser Ala Leu Val Asp

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104      370      375      380
105 Tyr Glu Lys Ala Ile Gln Asn Ala Phe Lys Glu Val Ser Asp Val Leu
106 385      390      395      400
107 Ala Glu Arg Ala Thr Leu Gly Leu Arg Leu Asp Ala Gln Ile Arg Leu
108      405      410      415
109 Gln Asp Asn Tyr Arg Gln Thr Tyr Asp Ile Ala Tyr Ala Arg Phe Arg
110      420      425      430
111 Ser Gly Leu Asp Asn Tyr Leu Thr Val Leu Asp Ala Glu Arg Ser Leu
112      435      440      445
113 Phe Ile Asn Gln Gln Asn Ile Leu Gln Leu Glu Leu Ala Lys Leu Val
114      450      455      460
115 Ser Gln Ile Gln Leu Tyr Gln Ala Leu Gly Gly Gly Ala Ser Leu Thr
116 465      470      475      480
117 Ala Glu Gln Ile Thr Glu Phe Asn Arg Gln Arg Glu Ala Met Arg Pro
118      485      490      495
119 Ala Met Leu Met Asp Asp Glu Lys Ser Gln
120      500      505
122 <210> SEQ ID NO: 3
123 <211> LENGTH: 1521
124 <212> TYPE: DNA
125 <213> ORGANISM: Moraxella catarrhalis
127 <400> SEQUENCE: 3
128 atgaaaatct ctacaactgc acgtatcttg acgctctcag cgctggcgat tggcatggca      60
129 gcttgtagta gcattccaaa gaaaattgac acatcggcac cgattttggc ggtgcctaata      120
130 gtgcctatga aggatggcta tcaagtctat gatgctgaca ccatcagtggt ggcgcaggca      180
131 ccaagcgtgg catcactacg ctggcaggaa ttttatacaa atcctaaact tgcagctttg      240
132 attgagcttg ctttacaaaa taacaaagac ttgcaatctg cggctcttagc cgtgcaatca      300
133 gcccggtgctc aatatcaaat taccgaagct ggcagcgtgc cacaagtcgg ctcaaatacc      360
134 agtgtgacac gccaaagcga taaccgtatc gatgccaatg cttcaaccaa ttatcatggt      420
135 gggcttgcca tgagtgggta tgagctggat ttatggggca aagttgccag tcaaaaacag      480
136 caagcactac atcaatattt ggcaaccaac gccgccaaag acgccgttca gatttcaatc      540
137 atctcaagcg tcgcccaagg ttacgttaac ttagctcacg ctttggctca aaggcagttg      600
138 gctgagcaga cgctaaaaac ccgtgaacat gcgatgatga ttacccaaaa gcgttttgaa      660
139 gcgggggattg attctaagtc gccaaagtcta caagcagcaa gttcacttga gtcagcacga      720
140 ttggcagtat atgcagcaga taccagtatc ttaaaagcca aaaatgcgtt acagctgctg      780
141 attggtcgctc ctgtacaaaa cgagctacta ccagcgatag atgccagtat gcatatgggt      840
142 catattacca cacagacatt gtttagtgca ggtttgccca gcgagctttt atattatcgc      900
143 ccagatatta tgcaggctga gcacgccta aaagcagcag gtgcaaatat caatgtggca      960
144 cgcgctgctt attttccgtc gattcgttta tcatctaatt tgggatttag tagtaacagt      1020
145 ttgaataact tatttgaatc aagtgccttg ggctggctct ttgggcctgc gattagcttg      1080
146 cctatctttg atgcaggcag tcgccgtgcc aatcatgaga tggcgcaagt tgctcagcag      1140
147 tcggcattgg tggattatga aaaagctatt caaaatgcct ttaaagaagt gtcggatggt      1200
148 ttagctgagc gtgcaacttt aggcttgctt cttgatgccc agattcgctt tcaggataat      1260
149 taccgtcaaa cttatgatat cgcttatgca agatttcgtt ctggattgga taattatctg      1320
150 acggtactgg acgccgagcg gtcttttattt attaatcagc aaaatatact acagcttgaa      1380
151 cttgccaaagt tagtcagcca aatccagcta taccaagcat tgggcggcgg tgcaagctta      1440
152 actgctgagc aaatcacaga atttaatcgt cagcgtgaag ccatgcgtcc agccatgctg      1500
153 atggatgacg aaaaatccca a
155 <210> SEQ ID NO: 4

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156 <211> LENGTH: 506
157 <212> TYPE: PRT
158 <213> ORGANISM: Moraxella catarrhalis
160 <400> SEQUENCE: 4
161 Met Lys Ile Ser Thr Thr Ala Arg Ile Leu Thr Leu Ser Ala Leu Ala
162 1 5 10 15
163 Ile Gly Met Ala Ala Cys Ser Ser Ile Pro Lys Lys Ile Asp Thr Ser
164 20 25 30
165 Ala Pro Ile Leu Ala Val Pro Asn Val Pro Met Lys Asp Gly Tyr Gln
166 35 40 45
167 Val Tyr Asp Ala Asp Thr Ile Ser Val Ala Gln Ala Pro Ser Val Ala
168 50 55 60
169 Ser Leu Arg Trp Gln Glu Phe Tyr Thr Asn Pro Lys Leu Ala Ala Leu
170 65 70 75 80
171 Ile Glu Leu Ala Leu Gln Asn Asn Lys Asp Leu Gln Ser Ala Val Leu
172 85 90 95
173 Ala Val Gln Ser Ala Arg Ala Gln Tyr Gln Ile Thr Glu Ala Gly Ser
174 100 105 110
175 Val Pro Gln Val Gly Ser Asn Thr Ser Val Thr Arg Gln Ala Asn Asn
176 115 120 125
177 Arg Ile Asp Ala Asn Ala Ser Thr Asn Tyr His Val Gly Leu Ala Met
178 130 135 140
179 Ser Gly Tyr Glu Leu Asp Leu Trp Gly Lys Val Ala Ser Gln Lys Gln
180 145 150 155 160
181 Gln Ala Leu His Gln Tyr Leu Ala Thr Asn Ala Ala Lys Asp Ala Val
182 165 170 175
183 Gln Ile Ser Ile Ile Ser Ser Val Ala Gln Gly Tyr Val Asn Leu Ala
184 180 185 190
185 His Ala Leu Ala Gln Arg Gln Leu Ala Glu Gln Thr Leu Lys Thr Arg
186 195 200 205
187 Glu His Ala Met Met Ile Thr Gln Lys Arg Phe Ala Gly Ile Asp Ser
188 210 215 220
189 Lys Ser Pro Ser Leu Gln Ala Ala Ser Ser Leu Glu Ser Ala Arg Leu
190 225 230 235 240
191 Ala Val Tyr Ala Ala Asp Thr Ser Ile Leu Lys Ala Lys Asn Ala Leu
192 245 250 255
193 Gln Leu Leu Ile Gly Arg Pro Val Pro Asn Glu Leu Leu Pro Ala Ile
194 260 265 270
195 Asp Ala Ser Met His Met Gly His Ile Thr Thr Gln Thr Leu Phe Ser
196 275 280 285
197 Ala Gly Leu Pro Ser Glu Leu Leu Tyr Tyr Arg Pro Asp Ile Met Gln
198 290 295 300
199 Ala Glu His Arg Leu Lys Ala Ala Gly Ala Asn Ile Asn Val Ala Arg
200 305 310 315 320
201 Ala Ala Tyr Phe Pro Ser Ile Arg Leu Ser Ser Asn Val Gly Phe Ser
202 325 330 335
203 Ser Asn Ser Leu Asn Asn Leu Phe Glu Ser Ser Ala Leu Gly Trp Ser
204 340 345 350
205 Phe Gly Pro Ala Ile Ser Leu Pro Ile Phe Asp Ala Gly Ser Arg Arg

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Input Set : A:\seqlist.txt

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```

206          355          360          365
207 Ala Asn His Glu Met Ala Gln Val Ala Gln Gln Ser Ala Leu Val Asp
208          370          375          380
209 Tyr Glu Lys Ala Ile Gln Asn Ala Phe Lys Glu Val Ser Asp Val Leu
210 385          390          395          400
211 Ala Glu Arg Ala Thr Leu Gly Leu Arg Leu Asp Ala Gln Ile Arg Leu
212          405          410          415
213 Gln Asp Asn Tyr Arg Gln Thr Tyr Asp Ile Ala Tyr Ala Arg Phe Arg
214          420          425          430
215 Ser Gly Leu Asp Asn Tyr Leu Thr Val Leu Asp Ala Glu Arg Ser Leu
216          435          440          445
217 Phe Ile Asn Gln Gln Asn Ile Leu Gln Leu Glu Leu Ala Lys Leu Val
218          450          455          460
219 Ser Gln Ile Gln Leu Tyr Gln Ala Leu Gly Gly Gly Ala Ser Leu Thr
220 465          470          475          480
221 Ala Glu Gln Ile Thr Glu Phe Asn Arg Gln Arg Glu Ala Met Arg Pro
222          485          490          495
223 Ala Met Leu Met Asp Asp Glu Lys Ser Gln
224          500          505

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226 <210> SEQ ID NO: 5

227 <211> LENGTH: 21

228 <212> TYPE: DNA

229 <213> ORGANISM: Artificial Sequence

231 <220> FEATURE:

232 <223> OTHER INFORMATION: primer

234 <400> SEQUENCE: 5

235 acctgcacta aacaatgtct g

21

237 <210> SEQ ID NO: 6

238 <211> LENGTH: 22

239 <212> TYPE: DNA

240 <213> ORGANISM: Artificial Sequence

242 <220> FEATURE:

243 <223> OTHER INFORMATION: primer

245 <400> SEQUENCE: 6

246 tggtcgtcct gtaccaaacy ag

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248 <210> SEQ ID NO: 7

249 <211> LENGTH: 17

250 <212> TYPE: DNA

251 <213> ORGANISM: Artificial Sequence

253 <220> FEATURE:

254 <223> OTHER INFORMATION: primer

256 <400> SEQUENCE: 7

257 gtaaaacgac ggccagt

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259 <210> SEQ ID NO: 8

260 <211> LENGTH: 17

261 <212> TYPE: DNA

262 <213> ORGANISM: Artificial Sequence

264 <220> FEATURE:

265 <223> OTHER INFORMATION: primer

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/088,125

DATE: 04/04/2002

TIME: 15:35:52

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\04042002\J088125.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date